

A. AMENDMENTS TO CLAIMS

Please add new Claims 29-76 and amend the claims as indicated hereinafter.

1 1. (ORIGINAL) A method for previewing an electronic document, the method comprising:
2 generating the electronic document at a client;
3 transmitting document information associated with the electronic document from the
4 client to a printing device;
5 generating preview document data at the printing device based on the document
6 information and a set of one or more specific characteristics associated with the
7 printing device, wherein the set of one or more specific characteristics are
8 unavailable at the client;
9 transmitting the preview document data to the client from the printing device; and
10 previewing the electronic document at the client based on the preview document data
11 received from the printing device.

1 2. (ORIGINAL) The method as recited in Claim 1, wherein:
2 the printing device is a multi-functional printer (MFP); and
3 the step of transmitting document information includes transmitting document
4 information to the MFP.

1 3. (ORIGINAL) The method as recited in Claim 1, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of transmitting document information includes transmitting PDL data from the
4 client to the printing device.

1 4. (ORIGINAL) The method as recited in claim 1, wherein the step of generating preview
2 document data at the printing device includes generating raster image data at the printing

3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.

1 5. (ORIGINAL) The method as recited in claim 1, wherein the step of generating preview
2 document data at the printing device includes generating a bitmap image at the printing
3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.

1 6. (ORIGINAL) The method as recited in Claim 1, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 7. (ORIGINAL) The method as recited in Claim 6, wherein the one or more different
2 paper characteristics includes one or more paper type characteristics, wherein the one or
3 more paper type characteristics indicate a specific type of paper that has been for printing
4 the electronic document.

1 8. (ORIGINAL) The method as recited in Claim 6, wherein the one or more different
2 paper characteristics includes one or more paper color characteristics, wherein the one or
3 more paper color characteristics indicate a specific color of paper that has been for
4 printing the electronic document.

1 9. (ORIGINAL) The method as recited in Claim 1, wherein
2 the printing device supports one or more different fonts that are available for printing
3 electronic documents; and

4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different fonts that are available for printing
6 electronic documents.

1 10. (ORIGINAL) The method as recited in Claim 1, wherein
2 the printing device is associated with one or more different stapling characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different stapling characteristics that are available
6 for selection.

1 11. (ORIGINAL) The method as recited in Claim 1, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 12. (ORIGINAL) The method as recited in Claim 1, wherein
2 the client includes a print driver that is associated with the printing device; and
3 the set of one or more specific characteristics that are unavailable at the client includes
4 one or more characteristics that are unknown to the print driver.

1 13. (ORIGINAL) The method as recited in Claim 1, wherein
2 the client includes a print driver that is associated with the printing device, wherein the
3 print driver is associated with one or more print driver attributes that are not
4 supported by the printing device; and

5 the step of generating preview document data at the printing device includes the step of
6 translating one or more of the one or more print driver attributes into one or more
7 printing device attributes that are supported by the printing device.

1 14. (ORIGINAL) The method as recited in Claim 1, wherein the step of generating preview
2 document data at the printing device further includes the steps of:
3 determining the resolution of a display device that is associated with the client; and
4 generating the preview document data based on the resolution of the display device.

1 15. (ORIGINAL) The method as recited in Claim 1, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating two-dimensional (2-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 2-D.

1 16. (ORIGINAL) The method as recited in Claim 1, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating three-dimensional (3-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 3-D.

1 17. (ORIGINAL) The method as recited in Claim 1, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating HyperText Markup Language (HTML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the HTML data to the client from the printing device.

1 18. (ORIGINAL) The method as recited in Claim 1, wherein

the step of generating preview document data at the printing device includes the steps of
generating Extensible Markup Language (XML) data at the printing device; and
the step of transmitting the preview document data to the client includes the step of
transmitting the XML data to the client from the printing device.

19. (ORIGINAL) A method for previewing an electronic document, the method comprising:
receiving from a client at a printing device document information associated with an
electronic document;
generating preview document data at the printing device based on the document
information and a set of one or more specific characteristics associated with the
printing device; and
transmitting to the client the preview document data for causing a display unit associated
with the client to display a preview version of the electronic document.

20. (ORIGINAL) The method as recited in Claim 19, wherein:
the document information is Page Description Language (PDL) data; and
the step of receiving document information includes receiving PDL data at the printing
device.

21. (ORIGINAL) The method as recited in claim 19, wherein the step of generating preview
document data at the printing device includes generating raster image data at the printing
device based upon the document information and the set of one or more specific
characteristics associated with the printing device.

22. (ORIGINAL) The method as recited in Claim 19, wherein
the printing device is associated with one or more different paper characteristics that are
available for printing electronic documents; and

4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 23. (ORIGINAL) The method as recited in Claim 19, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 24. (ORIGINAL) The method as recited in Claim 19, wherein the step of generating
2 preview document data at the printing device further includes the steps of:
3 determining a display resolution of the display device that is associated with the client;
4 and
5 generating the preview document data based on the display resolution of the display
6 device.

1 25. (ORIGINAL) The method as recited in Claim 19, wherein
2 the step of generating preview document data at the printing device
3 includes generating three-dimensional (3-D) preview document data; and
4 the step of transmitting to the client the preview document data includes transmitting
5 preview document data that causes the preview version of the electronic
6 document to be displayed in 3-D on the display unit associated with the client.

1 26. (ORIGINAL) A computer-readable medium carrying one or more sequences of
2 instructions for previewing an electronic document, wherein execution of the one or more
3 sequences of instructions by one or more processors causes the one or more processors to
4 perform:

5 generating the electronic document at a client;
6 transmitting document information associated with the electronic document from the
7 client to a printing device;
8 generating preview document data at the printing device based on the document
9 information and a set of one or more specific characteristics associated with the
10 printing device, wherein the set of one or more specific characteristics are
11 unavailable at the client;
12 transmitting the preview document data to the client from the printing device; and
13 displaying a preview version of the electronic document at the client based on the
14 preview document data that is received from the printing device.

1 27. (ORIGINAL) A system for previewing an electronic document, comprising:
2 one or more processors;
3 one or more memories coupled to the one or more processors; and
4 one or more sequences of instructions stored in the one or more memories, wherein
5 execution of the one or more sequences of instructions by one or more processors
6 causes the one or more processors to perform the steps of:
7 receiving from a client at a printing device document information associated with
8 said electronic document;
9 generating preview document data at the printing device based on the document
10 information and a set of one or more specific characteristics associated
11 with the printing device, wherein the set of one or more specific
12 characteristics are unavailable at the client;
13 transmitting the preview document data to the client from the printing device for
14 displaying a preview version of the electronic document at said client.

1 28. (CURRENTLY AMENDED) ~~An document~~ A document preview apparatus comprising:

2 a memory for storing characteristics that are associated with the document preview
3 apparatus, wherein the characteristics are unavailable to clients that are connected
4 to the document preview apparatus; and
5 one or more processors that are configured for
6 receiving from the client document information associated with an electronic
7 document;
8 generating preview document data based on the document information and one or
9 more of the characteristics associated with the document preview
10 apparatus; and
11 transmitting to the client the preview document data for causing a display unit
12 associated with the client to display a preview version of the electronic
13 document.

1 29. (NEW) The computer-readable medium as recited in Claim 26, wherein:
2 the printing device is a multi-functional printer (MFP); and
3 the step of transmitting document information includes transmitting document
4 information to the MFP.

1 30. (NEW) The computer-readable medium as recited in Claim 26, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of transmitting document information includes transmitting PDL data from the
4 client to the printing device.

1 31. (NEW) The computer-readable medium as recited in claim 26, wherein the step of
2 generating preview document data at the printing device includes generating raster image
3 data at the printing device based upon the document information and the set of one or
4 more specific characteristics associated with the printing device.

1 32. (NEW) The computer-readable medium as recited in claim 26, wherein the step of
2 generating preview document data at the printing device includes generating a bitmap
3 image at the printing device based upon the document information and the set of one or
4 more specific characteristics associated with the printing device.

1 33. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 34. (NEW) The computer-readable medium as recited in Claim 33, wherein the one or more
2 different paper characteristics includes one or more paper type characteristics, wherein
3 the one or more paper type characteristics indicate a specific type of paper that has been
4 for printing the electronic document.

1 35. (NEW) The computer-readable medium as recited in Claim 33, wherein the one or more
2 different paper characteristics includes one or more paper color characteristics, wherein
3 the one or more paper color characteristics indicate a specific color of paper that has been
4 for printing the electronic document.

1 36. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the printing device supports one or more different fonts that are available for printing
3 electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different fonts that are available for printing
6 electronic documents.

1 37. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the printing device is associated with one or more different stapling characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different stapling characteristics that are available
6 for selection.

1 38. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 39. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the client includes a print driver that is associated with the printing device; and
3 the set of one or more specific characteristics that are unavailable at the client includes
4 one or more characteristics that are unknown to the print driver.

1 40. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the client includes a print driver that is associated with the printing device, wherein the
3 print driver is associated with one or more print driver attributes that are not
4 supported by the printing device; and
5 the step of generating preview document data at the printing device includes the step of
6 translating one or more of the one or more print driver attributes into one or more
7 printing device attributes that are supported by the printing device.

1 41. (NEW) The computer-readable medium as recited in Claim 26, wherein the step of
2 generating preview document data at the printing device further includes the steps of:
3 determining the resolution of a display device that is associated with the client; and
4 generating the preview document data based on the resolution of the display device.

1 42. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating two-dimensional (2-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 2-D.

1 43. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating three-dimensional (3-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 3-D.

1 44. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating HyperText Markup Language (HTML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the HTML data to the client from the printing device.

1 45. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating Extensible Markup Language (XML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the XML data to the client from the printing device.

- 1 46. (NEW) The system as recited in Claim 27, wherein:
2 the printing device is a multi-functional printer (MFP); and
3 the step of transmitting document information includes transmitting document
4 information to the MFP.
- 1 47. (NEW) The system as recited in Claim 27, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of transmitting document information includes transmitting PDL data from the
4 client to the printing device.
- 1 48. (NEW) The system as recited in claim 27, wherein the step of generating preview
2 document data at the printing device includes generating raster image data at the printing
3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.
- 1 49. (NEW) The system as recited in claim 27, wherein the step of generating preview
2 document data at the printing device includes generating a bitmap image at the printing
3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.
- 1 50. (NEW) The system as recited in Claim 27, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.
- 1 51. (NEW) The system as recited in Claim 50, wherein the one or more different paper
2 characteristics includes one or more paper type characteristics, wherein the one or more

3 paper type characteristics indicate a specific type of paper that has been for printing the
4 electronic document.

1 52. (NEW) The system as recited in Claim 50, wherein the one or more different paper
2 characteristics includes one or more paper color characteristics, wherein the one or more
3 paper color characteristics indicate a specific color of paper that has been for printing the
4 electronic document.

1 53. (NEW) The system as recited in Claim 27, wherein
2 the printing device supports one or more different fonts that are available for printing
3 electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different fonts that are available for printing
6 electronic documents.

1 54. (NEW) The system as recited in Claim 27, wherein
2 the printing device is associated with one or more different stapling characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different stapling characteristics that are available
6 for selection.

1 55. (NEW) The system as recited in Claim 27, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 56. (NEW) The system as recited in Claim 27, wherein
2 the client includes a print driver that is associated with the printing device; and
3 the set of one or more specific characteristics that are unavailable at the client includes
4 one or more characteristics that are unknown to the print driver.

1 57. (NEW) The system as recited in Claim 27, wherein
2 the client includes a print driver that is associated with the printing device, wherein the
3 print driver is associated with one or more print driver attributes that are not
4 supported by the printing device; and
5 the step of generating preview document data at the printing device includes the step of
6 translating one or more of the one or more print driver attributes into one or more
7 printing device attributes that are supported by the printing device.

1 58. (NEW) The system as recited in Claim 27, wherein the step of generating preview
2 document data at the printing device further includes the steps of:
3 determining the resolution of a display device that is associated with the client; and
4 generating the preview document data based on the resolution of the display device.

1 59. (NEW) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating two-dimensional (2-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 2-D.

1 60. (NEW) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating three-dimensional (3-D) preview document data; and

4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 3-D.

1 61. (NEW) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating HyperText Markup Language (HTML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the HTML data to the client from the printing device.

1 62. (NEW) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating Extensible Markup Language (XML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the XML data to the client from the printing device.

1 63. (NEW) A computer-readable medium for previewing an electronic document, the
2 computer-readable medium carrying one or more sequences of instructions which, when
3 executed by one or more processors, cause the performance of:
4 receiving from a client at a printing device document information associated with an
5 electronic document;
6 generating preview document data at the printing device based on the document
7 information and a set of one or more specific characteristics associated with the
8 printing device; and
9 transmitting to the client the preview document data for causing a display unit associated
10 with the client to display a preview version of the electronic document.

1 64. (NEW) The computer-readable medium as recited in Claim 63, wherein:
2 the document information is Page Description Language (PDL) data; and

3 the step of receiving document information includes receiving PDL data at the printing
4 device.

1 65. (NEW) The computer-readable medium as recited in claim 63, wherein the step of
2 generating preview document data at the printing device includes generating raster image
3 data at the printing device based upon the document information and the set of one or
4 more specific characteristics associated with the printing device.

1 66. (NEW) The computer-readable medium as recited in Claim 63, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 67. (NEW) The computer-readable medium as recited in Claim 63, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 68. (NEW) The computer-readable medium as recited in Claim 63, wherein the step of
2 generating preview document data at the printing device further includes the steps of:
3 determining a display resolution of the display device that is associated with the client;
4 and
5 generating the preview document data based on the display resolution of the display
6 device.

- 1 69. (NEW) The computer-readable medium as recited in Claim 63, wherein
2 the step of generating preview document data at the printing device includes generating
3 three-dimensional (3-D) preview document data; and
4 the step of transmitting to the client the preview document data includes transmitting
5 preview document data that causes the preview version of the electronic
6 document to be displayed in 3-D on the display unit associated with the client.
- 1 70. (NEW) An apparatus for previewing an electronic document, the apparatus comprising a
2 memory storing instructions which, when executed by one or more processors, cause the
3 performance of:
4 receiving from a client at a printing device document information associated with an
5 electronic document;
6 generating preview document data at the printing device based on the document
7 information and a set of one or more specific characteristics associated with the
8 printing device; and
9 transmitting to the client the preview document data for causing a display unit associated
10 with the client to display a preview version of the electronic document.
- 1 71. (NEW) The apparatus as recited in Claim 70, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of receiving document information includes receiving PDL data at the printing
4 device.
- 1 72. (NEW) The apparatus as recited in claim 70, wherein the step of generating preview
2 document data at the printing device includes generating raster image data at the printing
3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.

1 73. (NEW) The apparatus as recited in Claim 70, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 74. (NEW) The apparatus as recited in Claim 70, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 75. (NEW) The apparatus as recited in Claim 70, wherein the step of generating preview
2 document data at the printing device further includes the steps of:
3 determining a display resolution of the display device that is associated with the client;
4 and
5 generating the preview document data based on the display resolution of the display
6 device.

1 76. (NEW) The apparatus as recited in Claim 70, wherein
2 the step of generating preview document data at the printing device includes generating
3 three-dimensional (3-D) preview document data; and
4 the step of transmitting to the client the preview document data includes transmitting
5 preview document data that causes the preview version of the electronic
6 document to be displayed in 3-D on the display unit associated with the client.